BRUHATH BANGALORE MAHANAGARA PALIKE,

Office of the Executive Engineer Dasarahalli Division,

Schedule-B

NAME OF WORK: Improvements to UGD Works and sinking of Borewell in ward no.14 Dasarahalli Sub Division

Sl. No	Description of work	Unit	Qty	Rate quoted by the Contractor K.M.Aswatha Narayana	
				In Figures (Rs.)	Amount
1	2	3	4	5	7
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.complete as directed by	Cum	671.22	236.77	158924.76
2	Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. complete as directed by Engineer in Charge of the work.	Cum	119.63	5780.37	691505.66
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.complete as directed by Engineer in Charge of the work.	Cum	236.84	7423.0	1758063.32

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4	Providing T.M.T steel reinforcement for R.C.C work TMT bars Fe500 including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. complete as directed by Engineer in Charge of the work.	Tonne	14.21	78977.63	1122272.12
5	Providing and fixing precast reinforced cement concrete covering slabs of 10cm thick made out of M25 with OPC cement @340kgs per cum, 20mm and down size graded granite metal course aggregates @0.70cum and fine aggregated @0.74 cum with super plasticizers, machine mixed, including providing and removing centering, shuttering, strutting propping etc., for edges of slab with TMT steel (Fe500) cost & reinforcement charges, including finishing as required with cost of reinforcement etc, complete as directed by Engineer in Charge of the work.	Sqm	652.5	1810.02	1181038.05
6	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete as directed by Engineer in Charge of the work.	Nos	222	454.06	100801.32

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	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. complete as directed by Engineer in Charge of the work.	Sqm	30	89.03	2670.90
8	Scarifying by mechanical means stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications.complete as directed by Engineer in Charge of the work.	Sqm	2480	46.22	114625.60
9	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.complete as directed by Engineer in Charge of the work.	Cum	1590.16	75.19	119564.13
10	Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications complete as directed by Engineer in Charge of the work.complete as directed by Engineer in Charge of the work.	Sqm	2480	5.3	13144.00
11	0400 Stone dust / Grit 4.75 mm to 0.075 mm complete as directed by Engineer in Charge of the work.	m	272.88	1049.9	286496.71

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12	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. complete as directed by Engineer in Charge of the work.	Cum	391.65	2094.46	820295.26
13	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.complete as directed by Engineer in Charge of the work.	Cum	668.12	2108.0	1408396.96
14	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.complete as directed by Engineer in Charge of the work.	Sqm	5205.6	27.82	144819.79
15	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. complete as directed by Engineer in Charge of the work.	Sqm	7666.7	5.5	42166.85

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	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.complete as directed by Engineer in Charge of the work.	Sqm	10815.3	13.3	143843.49
17	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision - do - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen complete as directed by Engineer in Charge of the work.	Cum	540.77	6012.0	3251109.24
18	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) complete as directed by Engineer in Charge of the work.	Cum	432.61	7099.15	3071163.28

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19	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.complete as directed by Engineer in Charge of the work.	Sqm	461.75	454.74	209976.20

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